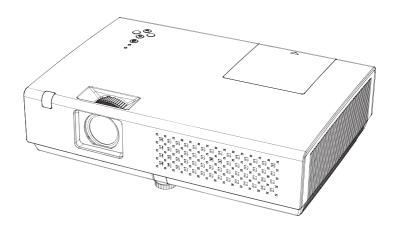


User's Manual
LCD PROJECTOR
Model LX-2300 Series

# **LCD Multi-Media Projector**



P/N: 4100627500

# **Statement**

### ✓ Note:

- The screen menu and pictures in the manual may slightly differ from the real product.
- The manual is subject to change without prior notice.

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# **Safety Instructions**

Please read this manual completely before installing and operating the projector.

The projector provides many convenient features and functions. Proper operation may enable you to fully utilize the features and keep it in good condition. Otherwise, it will not only shorten the service life of the unit, but also may cause malfunction, a fire, or other accidents.

If your projector cannot work properly, please read this manual again, check the operating methods and cable connection, and try the solutions in the part of Troubleshooting. If the problem still exists, contact the dealer or the service center.

The lamp of the projector is a wearing part. The luminance may decrease after a period of operation and be weaker than that of a new lamp. This is normal. Please strictly follow the steps in Turning on the unit and Turning off the unit to turn on/off the projector, and the requirements in Maintaining and cleaning the projector to service and clean the projector regularly. Or the high temperature residual heat may not radiate, greatly shortening the service life of the projector and lamp, or even damaging them within a short period.



# Caution ELECTRIC SHOCK DO NOT OPEN



### CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK NO USER SERVICEABLE PARTS INSIDE EXCEPT LAMP REPLACEMENT. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.



THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE USER'S MANUAL WITH THIS UNIT.

Disposal of old Electrical & Electronic Equipment (Applicable throughout the European Union and other European countries with separate collection programs)

This symbol found on your product or on its packaging, indicates that this product should not be treated as household waste when you wish to dispose of it. Instead, it should be handed over to an applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate disposal of this product. The recycling of materials will help to conserve natural resources.



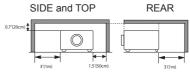
This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.



### Safety precautions

Caution: • The projector must be grounded.

- Do not expose the projector to raindrops or high humidity to avoid a fire or electric shock.
- This projector produces intense light from the projection lens. Avoid staring directly into the lens, otherwise eye damage could be caused.
   Be especially careful that children do not stare directly into the beam.
- Place the projector in a proper position. Otherwise it may result in fire hazard.
- Leave an appropriate space from the top, sides, and back of the shell in order to ventilate and cool down the projector. The figures below indicate the minimum distance to be left. It must be satisfied if the projector is placed in sealed environment like a cabinet.



- Do not cover the vent of the projector. Poor radiation may shorten the service life or even cause dangers.
- Remove the AC power plug if the projector is not to be used for a long time.
- Do not project the same image for a long time; otherwise, a residual image may appear on the LCD panel due to its characteristic.



### Caution

Do not set the projector in greasy, wet, or smoky conditions such as in a kitchen, to prevent a malfunction or accident. If the projector comes in contact with oil or chemicals, it may become deteriorated.

Read and keep this manual for future reference.

The mains plug/appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.



Environment-friendly use conditions: The environmentfriendly life time of the projector and remote control is 10 years, the lamp (consumable) 5 years, and the provided batteries (consumable) 5 years.

The use conditions of the environment-friendly use period are the same with that of the product. Properly operate and effectively maintain the projector according to the requirements in this manual.

# Safety Guide

All the safety and operating instructions should be read before the product is operated.

Read all of the instructions given here and retain them for later use. Unplug this projector from AC power supply before cleaning. Do not use liquid or aerosol cleaners.

Use a damp cloth for cleaning.

Follow all warnings and instructions marked on the projector.

For added protection to the projector during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage due to lightning and power line surges.

Do not expose this unit to rain or use near water... for example, in a wet basement, near a swimming pool, etc...

Do not use attachments not recommended by the manufacturer as they may cause hazards.

Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or adult, and serious damage to the projector.

Use only with a cart or stand recommended by the manufacturer, or sold with the projector. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturers.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



Slots and openings in the back and bottom of the cabinet are provided for ventilation, to ensure reliable operation of the equipment and to protect it from overheating.

The openings should never be covered with cloth or other materials, and the bottom opening should not be blocked by placing the projector on a bed, sofa, rug, or other similar surface. This projector should never be placed near or over a radiator or heat register.

This projector should not be placed in a built- in installation such as a book case unless proper ventilation is provided.

Never push objects of any kind into this projector through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the projector.

Do not install the projector near the ventilation duct of air-conditioning equipment.

This projector should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied, consult your authorized dealer or local power company.

Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not allow anything to rest on the power cord. Do not locate this projector where the cord may be damaged by persons walking on it.

Do not attempt to service this projector yourself as opening or removing Covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Unplug this projector from wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power cord or plug is damaged or fraved.
- b. If liquid has been spilled into the projector.
- c. If the projector has been exposed to rain or water.
- d. If the projector does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the projector to normal operation.
- e. If the projector has been dropped or the cabinet has been damaged.
- f. When the projector exhibits a distinct change in performance-this indicates a need for service.

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or injury to persons.

Upon completion of any service or repairs to this projector, ask the service technician to perform routine safety checks to determine that the projector is in safe operating condition.

# **Safety Guide**

### Air circuitlation

Vents in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

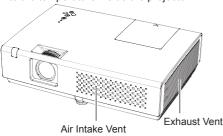


### Caution

Hot air is exhausted from the exhaust vent. When using or installing the projector, the following precautions should be taken.

- Do not put any flammable objects, or spray can near the projector. Hot air is exhausted from the air vents.
- Keep the exhaust vent at least 1 m away from any objects.
- Do not touch a peripheral part of the exhaust vent, especially screws and metallic part. This area will become hot while the projector is being used.
- Do not put anything on the projector. Objects put on the cabinet will not only get damaged but also may cause fire hazard by heat.
   Cooling fans are provided to cool down the projector.

The fan's running speed is changed according to the temperature inside the projector.





Air Intake Vent

# Moving the projector

When moving the projector, cover the lens cap and retract the adjustable feet to prevent damage to the lens and cabinet. Put it into a pouch (provided) with the lens facing upwards if the projector is not in use for a long period.

# Installing the projector properly

Be sure to install the projector properly. Improper installation may reduce the lamp lifetime and even cause a fire hazard.



Do not roll the projector over 20 degrees from side to side.



Do not point the projector up to project an image.



Do not point the projector down to project an image.

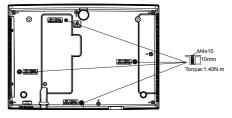


Do not put the projector on either side to project an image.



Caution in ceiling installation the projector

- Only qualified personal is authorized for ceiling installation.
- We are not responsible for the hurt and damage caused by ceiling brakect that purchased from unauthorized dealer even in warranty period.
- Remove the ceiling bracket immediately while not use.
- While installing, torque screwdriver is suggested, don't use electric or impact-type screwdriver.

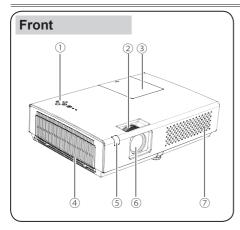




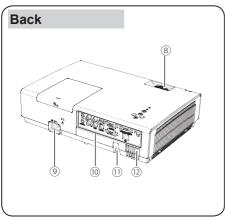
Caution in moving or transporting the projector

- Do not drop or bump the projector, otherwise damages or malfunctions may result.
- When carrying the projector, use a suitable carrying case.
- Do not transport the projector by courier or any other transport service in an unsuitable transport case. This may cause damage to the projector. For information about transporting the projector by courier or any other transport service, consult your dealer.
- Do not put the projector in a case before it is cooled enough.

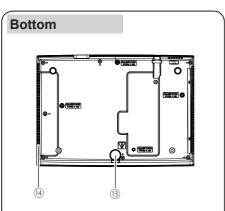
# Part names and functions



- ① Top control and Indicators
- ② Zoom ring
- 3 Lamp cover
- 4 Filter
- (5) Remote control receiver
- 6 Projector lens
- Air intake vent



- 8 Focus ring
- 9 AC cord connector
- (10) Terminals
- (1) Anti-thief slot
- 12 Speaker



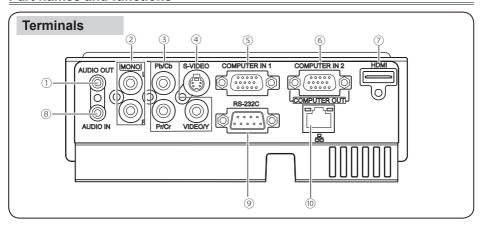
- Adjustable foot
- (14) Exhaust vent



# Caution

Hot air is exhausted from the exhaust vent. Do not put heat-sensitive objects near this side.

### Part names and functions



### ① AUDIO OUT

- Connect external audio amplifier to this jack.
- Output audio signal from ②, ⑦ or ⑧.

### ② Audio in/MONO(R/L)

- When the video equipment is connected to ③ or ④ , Connect its audio signal to this iack.
- For a mono audio signal (a single audio iack), connect it to L(MONO) jack.

### 3 Pb/Cb.Pr/Cr.Y/VIDEO

- Connect composite video signal to VIDEO port.
- Connect component video signal to this jack.

### (4) S-VIDEO

Connect S-Video signal to this jack.

### **(5) COMPUTER IN1**

Connect a computer output to this terminal.

### **© COMPUTER IN2/COMPUTER OUT**

- Connect a computer output to this terminal.
- Output the analog signal form (§) to other monitor. (Need to set in Setting menu.)

### 7 HDMI

Connect a HDMI output to this terminal.

### (8) AUDIO IN

Connect the audio signal output from computer equipment connected to ⑤ or ⑥ to this jack.

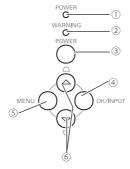
### 9 RS-232C

When using RS232 to control the projector, please connect the serial control line to this terminal.

### (10) LAN

Connect the wired LAN cable to this port.

# **Top Control and Indicators**



### 1 POWER indicator

- Lights red when the projector is in standby mode.
- Lights green during operations.
- Flashes green in the Power management mode.
- Flashes red during fans cooling.
- lights orange when abnormal is detected in the projector.
- Flashes orange when internal temperature is abnormally high.

### 2 WARNING indicator

Lights red when the life of the projection lamp draws to an end.

### ③ POWER button

To turn on/off the projector.

### (4) OK/INPUT button

- Press INPUT button to select input source while no screen menu displayed.
- Enter screen menu or execute the selected item.

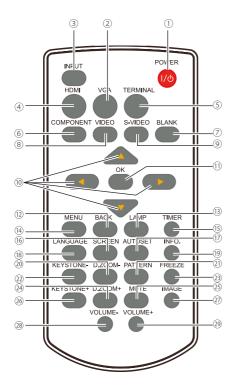
### (5) MENU button

Open or close the screen menu.

### ⑥ ▲ ▼/Keystone button

- Select items or adjust the data in screen menu.
- Correct image keystone distortion.

### Remote control



### 1 POWER button

Turn on or turn off the projector.

### 2 VGA button

Select VGA as input source.

### ③ INPUT button

Enter input source menu to select input source directly.

### 4 HDMI button

Select HDMI as input source.

### **5 TERMINAL button**

Select property of COMPUTER IN 2/COMPUTER OUT terminal.

### **6 COMPONENT button**

Select component as input source.

### (7) BLANK button

Temporarily close the image on the screen.

### **® VIDEO button**

Select Video as input source.

### 9 S-VIDEO button

Select S-video as input source.

### 10 ▲▼◀▶ button

- Select items or adjust the data in screen menu.
- Select the image display area in digital zoom mode

### (1) OK button

Enter screen menu or execute selected items.

### 12 BACK button

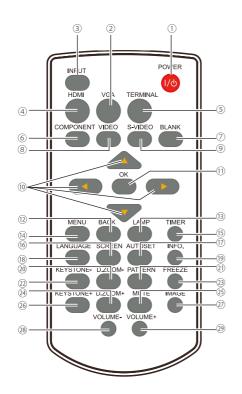
Return to main menu.

### **13** LAMP button

Select lamp mode.

### (14) MENU button

Open or close the screen menu.



# 15 TIMER button

Enable the timer function

### 16 SCREEN button

Select the screen size.

### (17) AUTOSET button

Enter auto setup mode.

### **(B) LANGUAGE button**

Select the language for screen menu.

### 19 INFO. button

Display the projector information.

### 20 DZOOM- button

Select the digital zoom - mode.

### 21 PATTERN button

Select internal test image.

### 22 KEYSTONE- button

Execute keystone correction, decrease the bottom width of distorted image.

### 3 FREEZE button

Freeze the projected image.

### 24 DZOOM+ button

Select the digital zoom + mode.

### 25 MUTE button

Mute the sound.

### 26 KEYSTONE+ button

Execute keystone correction, decrease the upper width of distorted image.

### ② IMAGE button

Select the image mode.

### 28 VOUME - button

Decrease the volume level.

### 29 VOUME + button

Increase the volume level.

### Part names and functions

### Install remote control batteries

Open the battery compartment lid.



2Install new batteries into the compartment.



Two AAA batteries For correct polarity (+ and –), be sure battery terminals are in contact with pins in the compartment. 3 Replace the compartment lid.





To ensure safe operation, please observe the following precautions:

- Use two (2) AAA or LR03 type alkaline batteries.
- · Always replace batteries in sets.
- Do not use a new battery with a used battery.
- Avoid contact with water or liquid matter.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the battery has leaked on the remote control, carefully wipe the case clean and install new batteries.
- Risk of explosion if a battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions on the battery or local regulations or guides.

# **Operating range**

Point the remote control toward the projector remote receiver when pressing any button.

The maximum operating range for the remote control is about 5 meters and 60 degrees.



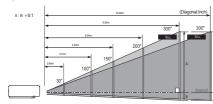
# Installation

# Positioning the projector

√ Note:

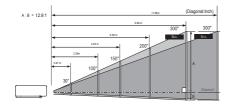
- The brightness in a room has a great influence on picture quality. It is recommended to limit the ambient lighting in order to get the best image.
- All measurements are approximate and may vary from the actual sizes.

4:3



Screen size	30"	100"	150"	200"	300"
(WxH)mm 4:3 aspect ratio	610x457	2032x1524	3048x2286	4064x3048	6096x4572
Maximum	0.89m	3.01m	4.53m	6.04m	9.08m
Minimum	1.07m	3.62m	5.44m	7.26m	10.90m

16:9



Screen size	30"	100"	150"	200"	300"
(WxH)mm 16:9 aspect ratio	664x374	2214x1245	3321x1868	4428x2491	6641x3736
Maximum	0.97m	3.28m	4.93m	6.59m	9.89m
Minimum	1.17m	3.94m	5.93m	7.91m	11.88m

# Adjustable foot

The projection angle can be adjusted up to 10.0 degrees with the adjustable foot.

Lift the front of the projector and press the lock on the adjustable foot to release it.

The foot is then locked. Rotate the foot to adjust the height and tilt angle.

Keystone distortion of projected images can be corrected by remote control or menu operation.



# Connecting to computer(Digital and analog RGB)

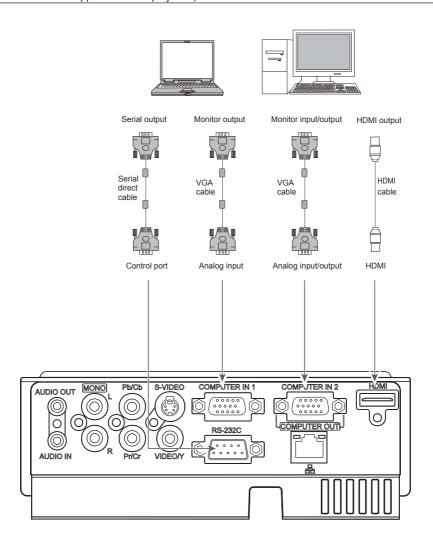
Cables used for connection:

VGA cable

Serial direct cable\*

HDMI cable\*

(\*=Cables are not supplied with the projector)





Unplug the power cords of both the projector and external equipment from the AC outlet before connecting the cables.

# Connecting to video equipment (Video, S-Video)

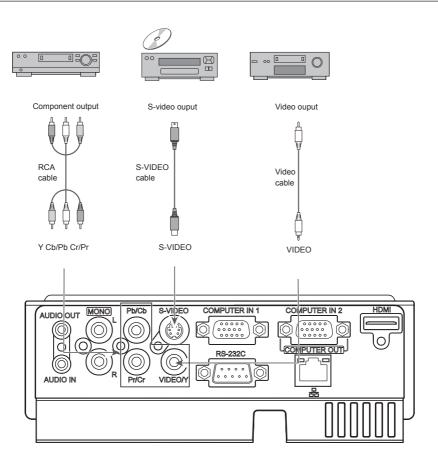
Cables used for connection:

Video cable\*

S-Video cable\*

RCA cable\*

(\*=Cables are not supplied with the projector)





Unplug the power cords of both the projector and external equipment from the AC outlet before connecting the cables.

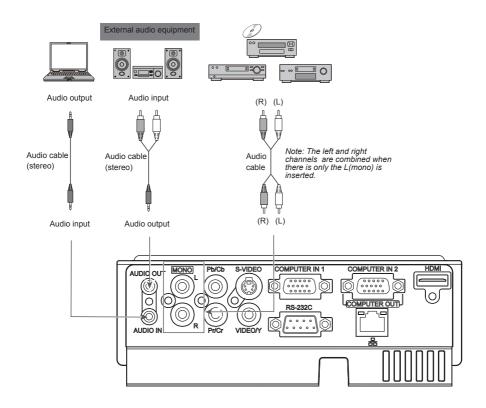
### Installation

# Connecting to audio equipment

Cables used for connection:

Audio cable\*

(\*=Cables are not supplied with the projector)

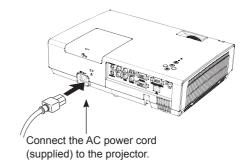




Unplug the power cords of both the projector and external equipment from the AC outlet before connecting the cables.

# Connecting the AC power cord

This projector uses nominal input voltages of 100–240V AC and it automatically applies to different input voltages. It is designed to work with a single-phase power system having a grounded neutral conductor. To reduce the risk of electrical shock, do not plug into any other type of power system. If you are not sure of the type of power being supplied, consult your authorized dealer or service station. Connect the projector with all peripheral equipment before turning it on.





### Note:

The AC outlet should be near this equipment and must be easily accessible.

### √ Note:

For safety, unplug the AC power cord when the projector is not in use. When the projector is connected to an outlet with AC power cord, it is in stand-by mode and consumes a little electric power.

### Note on the power cord

AC power cord must meet the requirements of the country where you use the projector. Confirm the AC plug type with the chart below and proper AC power cord must be used. If the supplied AC power cord does not match.

	AC outlet side			
Projector side	For the U.S.A. and Canada	For Continental Europe	For the U.K.	
	Ground		Ground	
To power cord connector on your projector.	To the AC outlet.	To the AC outlet.	To the AC outlet.	

### √ Note:

- Using incorrect power cord may influence the product performance, or even cause hazards like an
  electric shock or fire. To ensure the product performance and security, please apply the cable of the
  same model with the original one.
- Common connecting cables include the AC power cord, various VGA cables, video cable, and serial control cable.

# **Basic operation**

# Turn on the projector

- Complete peripheral connections (with a computer, VCR,etc.) before turning on the projector.
- Connect the projector's AC power cord into AC outlet. The POWER indicator turns red.
- Press the POWER button on top control or on the remote control. The POWER indicator becomes green and the cooling fans start to work. The preparation display appears on the screen.
- If the projector is locked with a PIN code, a PIN code input dialog box appears. Enter the PIN code as instructed below.

### √ Note:

• When the logo select is set to be "Off", the logo will not be displayed on the screen.

### Enter a PIN code

Press OK button, press ▲▼ button to select a number, then press OK button. select a number and enter it to the PIN code box, then number changes to "\*", automatically move the cursor to next box.If you fixed an incorrect number, press MENU button to reset it again.

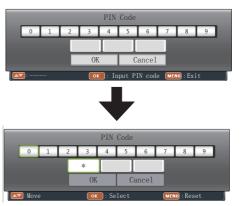
Repeat this step to complete entering a three-digit number.

After entering the three-digit number, move the cursor to "OK", then you can start to operate the projector.

If you entered an incorrect PIN code, the "PIN code" and the number (\*\*\*) turn red.PIN dode will be reset within one second automatically, Enter the correct PIN code all over again.

### What is PIN code?

PIN (Personal Identification Number) code is a security code that allows the person who knows it to operate the projector. Setting the PIN code can prevent unauthorized use of the projector. A PIN code consists of a three-digit number. Refer to the PIN code lock function in the "Expand" "Security" menu on pages 42 for PIN code lock operation of the projector.



Move the cursor to OK, and press OK.



Caution on handling the PIN code If you forget your PIN code, the projector can not longer be started. Take a special care in setting a newPIN code. Write down the number in a column on page 59 of this manualand keep it properly. Should the PIN code be missing or forgotten, consult your dealer or service center.

# Turn off the projector

- Press the POWER button on top control or on the remote control, and "Power off?" appears on the screen.
- Then, press the POWER button again in 4 seconds. The POWER indicator starts to flash red, and the cooling fans keep running (You can select the level of fans' quietness and running speed.). Now you can unplug the AC power cord after the fans stop running.
- 3 When the projector has cooled down enough to be turned on again, the POWER indicator stops flashing.



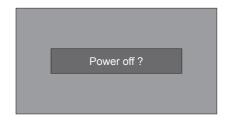
To maintain the lamp life, once you turn the projector on, wait at least 5 minutes before turning it off.



Do not operate the projector continuously without reset. Continuous use may result in shortening the lamp life. Turn off the projector and let it stand for about an hour in every 24 hours.

### √ Note:

- When the On start function is "On", this projector is turned on automatically by connecting the AC power cord to an AC outlet.
- The running speed of cooling fans is changed according to the temperature inside the projector.
- Do not put the projector in a case before it is cooled enough.
- If the POWER indicator flashes or emits a red light, see "Power Indicator".
- While the POWER indicator is flashing, the lamp is being cooled down and the projector cannot be turned on. Wait until the POWER indicator turns red to turn on the projector again.
- The fan rotation will terminate directly if the AC power cord is unplugged immediately after the projector is turned off.
- The projector can be turned on after the POWER indicator turns red. The waiting time to restart will be shortened when the normal power-off processing for fan cooling is completed, comparing with the time the AC power cord is immediately unplugged after the power-off.



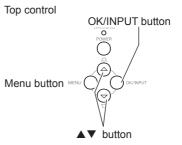
"Power off?" disappears after 4 seconds.

# **Basic operation**

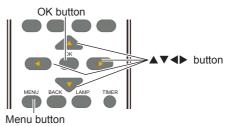
# How to operate the screen menu

The projector can be adjusted or set via the onscreen menu,Each main menu can be divided into several levels of submenus, and subme nus are also divided into several levels of subsubmenus.

For each adjustment and setting procedure, refer to the respective sections in this manual.



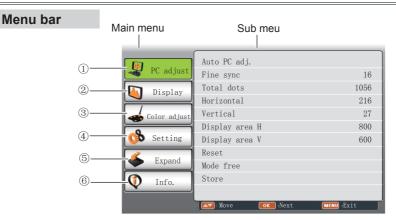
### Remote control



- 1 Press the MENU button on the top control or the remote control to display the screen menu.
- 2 Press ▲▼ buttons to select an entry in the main menu and then press OK button to enter the submenu.
- 3 Press ▲ ▼ buttons to select your required item, and then press OK button to set or enter required item.
- 4 Press ▲▼ buttons to adjust settings or switch among the items. Press the OK button for corresponding operation and then press MENU button return to the submenu.
- 5 Press MENU button to return to the previous menu. Press MENU button again to exit the screen menu.

### Screen menu





### ① PC adjust

Adjust computer parameters to match with VGA input signal format: auto PC adj, Fine sync, Total dots, Horizontal, Vertical, Display area H, Display area V.

### ② Display

- Screen Size: select the projecting image screen size.

If a computer is selected as a signal source, the following setup options for the image size are available: **Normal,Wide**, **Custom** and **Advanced**.

If video equipment is selected as a signal source, the following setup options for the image size are available: **Normal,Wide** or **Custom**.

- Keystone:select keystone function to correct image keystone distortion.
- Project Way:select a project way among Front, Rear, Celing/Front, Ceiling/Rear, Auto Ceiling/Front and Auto Ceiling/Rear.
- Menu Position: set the menu's position on the screen.
- Background Display:set the background display color for project screen.
- System:select a system signal format to match the input source.

### 3 Color adjust

- Image mode: the available image modes is Normal, Natural, Cinema, Blackboard (green), Colorboard or User Image.
- Image color adjust:

If a computer is selected as a signal source, the following image adjusting options are available: Contrast, Brightness, Color temp., White balance (R/G/B) and Sharpness. If video equipment is selected as a signal source, the following image adjusting options are available: Contrast, Brightness, Color, Tint, White balance (R/G/B), Sharpness and Progressive.

### (4) Setting

Configure basic operation settings of the projector: On start, Standby mode, High land, Lamp control, Cooling fast, Closed caption, Key lock, Iris, Terminal and Sound.

### 5 Expand

Configure expand operation settings of the projector: Language, Auto setup, Logo, Security, Power management, Filter counter, Pattern, Network and Factory default.

### ⑥ Info

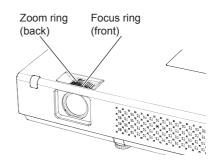
Display the system information of the projector.

# **Basic operation**

# Adjust zoom and foucus

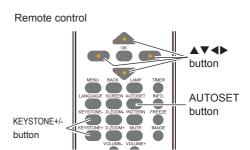
Rotate the zoom ring to zoom in or zoom out the image.

Rotate the focus ring to adjust the focus of the image.



# **Auto setup function**

This function is available just by pressing the AUTOSET button on the remote control. The system then automatically performs various settings in the setup menu, including input source search and auto pc adjust.



# Keystone

If a projected picture has keystone distortion, follow the steps below to manually correct the image.

Press the KEYSTONE button on the remote control. The keystone dialog box appears. Correct keystone distortion with  $\blacktriangle \blacktriangledown$  buttons. Keystone adjustment can be stored.

Reduce the upper width with **\( \Delta\)** button.

Reduce the lower width with ▼ button.





# Keystone



- The arrows are white when there is no correction
- The arrows that are used for correction turns red.
- The arrows disappear at the maximum correction.
- If you press the KEYSTONE button on the remote control once more while the keystone dialog box is being displayed, the keystone adjustment is canceled.
- The adjustable range can be limited depending on the input signal.

### Volume

### **Direct operation**

### Volume

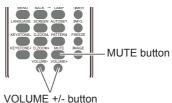
Press the VOLUME +/- button on the on the remote control to adjust the volume.

### Mute

Press the MUTE button on the remote control and select **On** to turn off the audio temporarily. To restore the audio to its previous level, press the MUTE button again and select **Off** or press the VOLUME+/– buttons.

Mute function is also effective for AUDIO OUT jack.

### Remote control



### Menu operation

- 1 Press the MENU button to display the screen menu. Press ▲▼ button to select the Setting menu icon. Press OK to enter the submenu entry.
- 2 Press ▲▼ button to select Volume and then press OK button.
- 3 Press ▲▼ button to select Volume or Mute to adjust.

### Volume

Press ▲ to increase the volume and ▼ to decrease the volume.

### Mute

Press ▲ ▼ button to switch the mute function On/ Off.

### Volume menu



# **Basic operation**

# Remote control operation

Using the remote control for some frequently used operations is advisable. Just pressing one of the buttons enables you to make the desired operation quickly without calling up the screen menu.

### **INPUT** button

Press INPUT button on the remote control to select the input source.

### **FREEZE** button

Press FREEZE button to freeze the picture on the screen. To cancel the freeze function, press the FREEZE button again or press any other button.

### **MUTE** button

Press MUTE button on the remote control to turn off the volume. Press MUTE button again or any other buttons to cancel mute function

### **LAMP** button

Press LAMP button to select a lamp mode to change the brightness of the screen.

Normal ..Normal brightness

ECO ..... Lower brightness, reducing the lamp power consumption and extending the lamp life.

# Remote control INPUT button POWER LAMP button MEYSTONE D.ZOOM PATTERN FREEZE BUTTON VOLUME - V

# **IMAGE** button

Press IMAGE button on the remote control to select the image mode you desire.

### INFO button

Press INFO button on the remote control to display the projector information.

### VOLUME +/- button

Press image VOLUME +/- button on the remote control to increase or decrease the volume.

### √ Note.

See the next page for the description of other buttons.

### **BLANK** button

Press BLANK button to black out the image. To restore to normal, press the BLANK button again or press any other button.

The screen changes each time you press the button as follows:

Black out →Normal →Black out →Normal

### TIMER button

Press TIMER button. The timer display "00:00" appears on the screen and the timer starts to count time (00:00–59:59).

To stop the Timer, press TIMER button. Press TIMER button again, and then the Timer display disappears.

### **SCREEN** button

Press SCREEN button on the remote control to select the screen size you desire.

### D.ZOOM+ button

Press D.ZOOM+ button, the on-screen menu will disappear, while the information on digital zoom + appears. You can press Select to zoom in the image size, and press ▲ ▼ ◀ ► to move the image horizontally and vertically.

The moving is effective only when the image is larger than the size of the screen.

### D.ZOOM- button

Press D.ZOOM- button, the on-screen menu will disappear, while the information on digital zoom - appears. Press OK button to zoom in the image size.

To exit the "digital zoom +/-"mode, press any button except the D.ZOOM+/- and the OK button

To return to normal size, select "Screen size" in "Display" menu to adjust screen size, or Press  $\blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright$  button to move the image horizontally or vertically.

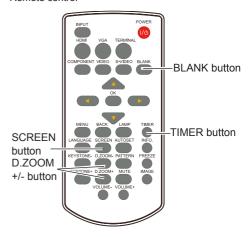


"Blank" disappears after 4 seconds if there is no other button operation.



Timer display

### Remote control



# **Input select**

**Direct Operation** 

Press HDMI, VGA, COMOPNENT, S-VIDEO or VIDEO button to select HDMI, Computer, Component, S-video or Video as input source.

Top control



### Menu operation

- 1 Press MENU button on the remote control or top control to display the input select menu.
- 2 Press ▲▼ button to select HDMI, Computer, Component, S-video or Video , then press OK button

HDMI

When input source is from equipment connected to HDMI terminal with HDMI cable, please select HDMI.

Computer 1

When input source is from computer connected to CONPUTER IN 1 terminal with VGA cable, please select Computer 1.

Computer 2

When input source is from computer connected to CONPUTER IN 2/COMPUTER OUT terminal with VGA cable, please select Computer 2.

Component

Select it when the input source is from the video equipment connected to Y, Cb/Pb, and Cr/Pr terminals with a RCA cable.

S-video

Select it when the video input signal is connected to S-VIDEO terminal.

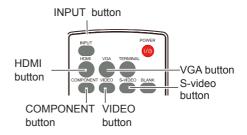
Video

Select it when the video input signal is connected to VIDEO terminal

### √Note:

- When the Input Search function is set to On in the Auto setup function, the input signal will be searched automatically.
- When COMPUTER IN 2/COMPUTER OUT terminal is used as COMPUTER OUT, Computer 2 can not be selected.

### Remote control



Input select menu



# **PC Adjust**

# Auto PC adj.

Auto PC Adjustment function is provided to automatically adjust Fine sync, Total dots, Horizontal and Vertical to conform to your computer.

### Menu operation

### Auto PC adj.

- 1 Press MENU button on remote control to display screen menu. Press ▲▼ button to select PC adjust,then press OK button.
- 2 Press ▲▼ button to select Auto PC adj., then press OK button.

### PC adjust Menu



### Store

The system parameters adjusted in the Auto PC adj. can be stored in the projector.

### √ Note:

- Total dots and horizontal & vertical positions of some computers cannot be fully adjusted with this
  Auto PC adj. function. When the image is not provided properly with this function, manual adjustments
  are required.
- The Auto PC adj. cannot be operated when 480i, 576i, 480p, 576p, 720p or 1080i is selected in the System menu of computer inputx.

# **PC Adjust**

### Manual PC adj.

Some computers employ special signal formats which may not be tuned by Multi-scan system of this projector. Manual PC Adjustment is provided for you to precisely adjust several parameters to match those signal formats. The projector has five independent memory areas to store those parameters manually adjusted, which allows you to recall the setting for a specific computer.

- 1 Press MENU button on remote control to display screen menu. Press ▲▼ button to select PC adjust,then press OK button.
- 2 Press ▲▼ button to select the item you want to adjust ,then ▲▼ button to adjust the data.

### Fine sync

To cut off flicker from the image displayed by pressing  $\blacktriangle \nabla$  to adjust the value.(from 0 to 31).

### Total dots

Press ▲▼ to adjust the total dots for a cycle so that it can match the image on computer.

### Horizontal

Press ▲▼ to adjust the horizontal picture position.

### Vertical

Press ▲▼ to adjust the vertical picture position.

### Display area H

Press  $\blacktriangle \blacktriangledown$  to adjust the horizontal area displayed by the projector.

### Display area V

Press ▲ ▼ to adjust the vertical area displayed by the projector.

### Reset

To reset the adjusted data, select Reset and press OK . A confirmation box appears and then select Yes. All adjustments will return to their initial figures.

### Mode free

To clear the adjusted data, select Mode free and then press  $\blacktriangle \blacktriangledown$  .Move to highlight the Mode you want to clear and then press OK.

### Store

To store the adjusted data, select **Store** and then press ▲▼. Move to one of the Mode 1 to 5 in which you want to store, and then press OK.

Manual PC adj. menu



### √ Note:

If you select 480i, 576i, 480p, 576p, 720p or 1080i from the system menu, the functions of both horizontal image and vertical image will be disabled.

# **Display**

Following items can be set in Display menu: Screen Size, Keystone, Project Way, Menu Position, Background Display and System.

### Screen Size

The screen size can be reset to the value as you desire.

- 1 Press MENU button on remote control to display screen menu. Press ▲▼ button to select Display,then press OK button.
- 2 Press▲▼ button to select Screen Size, press OK button.
- 3 Press▲▼button to select the size you desire,and then press OK button.

### Normal

To project images in the same aspect ratio with the input signals.

### Wide

provide an image with an aspect ratio of 16:9 by expanding the image width uniformly.

### Custom

Adjust the proportion and position of the screen manually.

Press OK button at Custom, Custom menu appears on the screen.Press ▲▼ button to adjust your required item.

H/V scale: Adjust the horizontal/vertical screen scale.

H&V: When set to "On", the aspect ratio is fixed. The Scale V appears dimmed and becomes unavailable. Adjust Scale H, and then the screen scale is automatically modified based on the aspect ratio.

H/V position: Adjust the horizontal/vertical screen position.

Common: Save the adjusted scale to all the inputs. Press OK at Common to display a confirmation box. To save the scale, press OK. When Custom is selected, the saved scale is used.

Reset: Reset all the adjusted values. Press OK at Reset to display a confirmation box. To set, press OK at "Yes".

### ✓ Note:

To abtain perfect image quality, please set the display resolution as XGA(1024x768) or WXGA(1280x800).

### Display menu



Screen Size



### Advanced

This function is used to set the horizontal/ vertical position and quantities of the projector in image segment and mosaics.

Press OK button at Advanced, Advanced menu appears on the screen. Press ▲▼ button toselect and adjust your required item.

H total: set the total quantities of the projector.

H total: set the total quantities of the projector at horizontal direction. Image will be segmented by vertical direction. setting value from 1 to 512. (WXGA mode:1-640)

V total: set the total quantities of the projector at vertical direction. Image will be segmented by horizontal direction.setting value from 1 to 384. (WXGA mode: 1-400)

Position H: set the horizontal position of the projector. Setting range: from 1 to the total quantitity of projectors at horizontal direction. Position V: set the vertical position of the projector. Setting range: from 1 to the total quantitity of projectors at vertical direction.

### ✓ Note:

"Advanced" is enable only for VGA1 input.

# **Display**

# Keystone

This function is used to store or reset the keystone correction when the AC power cord is unplugged.

- 1 Press MENU button on remote control to display screen menu. Press ▲▼ button to select Display,then press OK button.
- 2 Press▲▼ button to select Keystone, press OK button.
- 3 Press ▼ button to select the item you want to set, press OK button.

Store ...Store the keystone correction even when the AC power cord is unplugged.

Reset ...Reset the keystone correction when the AC power cord is unplugged.

Adjust ..Press OK for keystone correction.

Keystone correction menu appears on the screen. Press ▲▼ to correct keystone distortion.

### Keystone menu



# **Project Way**

This function is used to set the project way,

- 1 Press MENU button on remote control to display screen menu. Press ▲▼ button to select Display,then press OK button.
- 2 Press▲▼ button to select Project Way, press OK button.
- 3 Press ▲ ▼ button to select the item you want to set, press OK button.

Front......Project to front screen when projector is front standing.

Rear......Project to rear screen when projector is front standing.

Ceiling/Front..Project to front screen when projector is in ceiling state.

Ceiling/Rear..Project to rear screen when projector is in ceiling state.

Auto Ceiling/Front.Project to front screen automatically when projector is in ceiling state.

Auto Ceiling/Rear.Project to rear screen automatically when projector is in ceiling state.

### Project way menu



### **Menu Position**

You can use this function to change the position of screen menu.

- 1 Press MENU button on remote control to display screen menu. Press ▲▼ button to select Display,then press OK button.
- 2 Press▲▼ button to select Menu Position, press OK button.
- 3 Press▲▼ button to select the item you want to set, press OK button.

Upper left....Menu locates on upper left of the screen.

Upper right..Menu locates on upper right of the screen.

Center......Menu locates at the center of the screen

Lower left....Menu locates on lower left of the screen.

Lower right..Menu locates on lower right of the screen.

### Menu position



# **Background Display**

This function is used to select the screen background of the projector when there is no signal detected.

- 1 Press MENU button on remote control to display screen menu. Press ▲▼ button to select Display,then press OK button.
- 2 Press▲▼ button to select Background Display, press OK button.
- 3 Press▲▼ button to select the item you want to set, press OK button.

Black....Select black background. Blue.....Select blue background.

### Background display



# **Display**

# **System**

### Computer system select

The projector automatically tunes to various types of computers with its function of Multi-scan system and Auto PC Adjustment. If a computer is selected as a signal source, the projector automatically detects the signal format and tunes to project proper images without any additional setting.

One of the following messages may appear when:

Auto

When the projector cannot recognize the connected signal conforming to the provided computer system, Auto is displayed on the System menu box and the Auto PC Adj. function works to display proper images. If the image is not projected properly, a manual adjustment is required.

-----

There is no signal input from computer. Check the connection between your computer and projector.



### Select computer system manually

The system can also be selected manually.

- 1 Press MENU button on remote control to display the screen menu.Press ▲▼ button to select the Display icon, and press OK button.
- 2 Press ▲▼ button to select System and press OK button.
- 3 Press ▲▼ button to select your required system, and then press the OK button.

### System for computer signal



### ✓ Note:

When HDMI is selected, System menu for computer is disable.

### Video or S-video

### Auto

The projector automatically detects an incoming video system, and adjusts itself to optimize its performance. When Video System is PAL-M or PAL-N, select the system manually.

PAL/SECAM/NTSC/NTSC4.43/PAL-M/PAL-N If the projector cannot reproduce proper video images, select a specific broadcast signal format from PAL, SECAM, NTSC,NTSC 4.43, PAI -M and PAI -N

### System for Video or S-video signal



### Component

### Auto

The projector automatically detects an input video system, and adjusts itself to optimize its performance.

### Component video signal format

If the projector cannot reproduce proper video images, select a specific broadcast signal format from 480i, 576i, 480p, 576p, 720p and 1080i.

### System for Component signal



# Color adjust

Color adjust menu is used to set the image mode and adjust the image.

# **Image Mode**

### Direct operation

Press IMAGE button on remote control to select the image mode.

### Menu operation

- 1 Press MENU button on remote control to display screen menu. Press ▲▼ button to select Color adjust,then press OK button.
- 2 Press▲▼ button to select Image Mode, press OK button.
- 3 Press ▼ button to select the item you want to set, press OK button.

### Normal

Image quality preset by the system on the projector.

### Natural

For viewing images in a bright room.

### Cinema

For watching movies with multiple gray scale levels.

### Blackboard (Green)

For viewing the image projected on a blackboard (green) by enhancing the image quality. This is mainly effective on a green colored board instead of a black colored board.

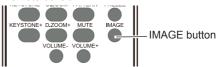
### Colorboard

For images projected onto the red, blue, yellow, or green wallpaper.

### User Image

Image quality preset by the user in the Image adjustment menu.

### Remote control



### Image mode (Computer)



### Image mode (Video, S-video, Component)



# Color adjust(Computer)

- 1 Press MENU button on remote control to display screen menu. Press ▲▼ button to select Color adjust, then press OK button.
- 2 Press▲▼ button to select the item you want to set, press OK button.
- 3 Press▲▼ button to adjust the data.

### Contrast

Press lacktriangledown to decrease the contrast and lacktriangledown to increase it.

### Brightness

Press ▼ to decrease the brightness and ▲ to increase it.

### Color temp.

Press ▲▼ to select your desired color temperature.( Low, Mid and High )

### Red(White balance)

Press ▼ to lighten the red tone and ▲ to deepen it.

### Green(White balance)

Press ▼ to lighten the green tone and ▲ to deepen it.

### Blue(White balance)

Press ▼ to lighten the blue tone and ▲ to deepen it.

### Sharpness

Press ▼ to decrease the sharpness of an image and ▲ to increase it.

### Color adjust(Computer)



# Color adjust

# Color adjust (Vdieo,S-video,Component)

- 1 Press MENU button on remote control to display screen menu. Press ▲▼ button to select Color adjust, then press OK button.
- 2 Press ▼ button to select the item you want to set. press OK button.
- 3 Press▲▼ button to adjust the data.

### Contrast

Press ▼ to decrease the contrast and ▲ to increase it.

### Brightness

Press lacktriangledown to decrease the brightness and lacktriangledown to increase it.

### Color

Press ▼ to decrease the chorma and ▲ to increase it.

### Tint

Press **\** to select the appropriate tone for the image.

### Red(White balance)

Press ▼ to lighten the red tone and ▲ to deepen it.

### Green(White balance)

Press ▼ to lighten the green tone and ▲ to deepen it.

### Blue(White balance)

Press ▼ to lighten the blue tone and ▲ to deepen it.

### Sharpness

Press ▼ to decrease the sharpness of an image and ▲ to increase it.

### Progressive

An interlaced video signal can be displayed in a progressive picture. Select one of the following options:

### Off....Disabled.

L1....For an active picture.

L2....For a still picture.

Film...For watching a film. With this function, the projector reproduces pictures faithful to the original film quality,reducing distortion

### Color adjust(Video, S-video, Component)



## Setting

The projector has Setting menu that allows you to set the other various functions described as follows.

- 1 Press MENU button on remote control to display screen menu. Press ▲▼ button to select Setting ,then press OK button.
- 2 Press ▼ button to select the item you want to set, press OK button.
- 3 Press▲▼ button to adjust the item, then press OK button.

#### Setting menu



#### On start

Enable the projector to be turned On automatically just by connecting the AC power cord to an outlet when this function is set to On.

#### On start



## Standby mode

Press ▲ ▼ button to select the item below:

Eco.......In this state, network function,

COMPUTER OUT is disable after
turning off the projector.

No command but POWER ON is
enable for RS232 after the projector
is turned off.

Normal ...Supply power to the projector even after turning off the projector.
You can turn on or turn off the projector via series port.

#### Standby mode



## Setting

### **High land**

Enable to control the fan through the Setting menu

You can select the running speed of the fan according to the altitude of the location where the projector is installed.

Off.....Normal speed. Set it so if the projector is operated at a lower altitude.

On.....Faster than Off. Set it so if the projector is operated at a higher altitude because fans will produce weaker effects.

#### ✓ Note:

Plese set High land "On" when operating the projector higher than 2000 meters.

#### High land



### Lamp control

Change the brightness of the screen.

Normal ... Normal brightness.

Eco ... .....Lower brightness, reducing power consumption and extending the lamp life.

#### Lamp control



## **Cooling fast**

This function provides the following options in the cooling fans' operation after turning off the projector.

Normal... Normal cooling speed.

60 sec ... Faster and louder than Normal, cooling time is shorter.

0 sec ..... Enable you directly unplug the AC power cord after turning off the projector, no need waiting for cooling.

### Cooling fast



## **Closed Caption**

Allows the subtitle to be displayed for the audio contents or other information. If the input source contains closed caption, you can enable this function and change the channel. Press ▲▼ to select OFF, CC1, CC2, CC3 or CC4.

If Closed Caption is not clear, you can change the text color to white from the original.

#### ✓ Note:

- The icon of Closed Caption is displayed in grey when it is disable.
- Closed caption is disable when screen menu or Timer displayed on screen.

#### Closed Caption



## **Key lock**

This function allows you to use the Key lock and PIN code lock function to set the security for the projector operation.

Select "Key lock" and press OK button, then press ▲▼ button to select the item you desire.

Off ....Unlock.



Projector . Lock the operation of the top control. To unlock,



use the remote control.

Remote Control ..... Lock the operation of the remote control. To unlock, use the top control.

If the top control accidentally becomes locked and you do not have the remote control nearby or there is something wrong with your remote control, contact the dealer where you purchased the projector or the service center.

#### Key lock



## **Setting**

### Iris

This function is used to increase the contrast of the image.

On.... Enable Iris function, increase the contrast of the image.

Off....Disable Iris function.

#### Iris



### **Terminal**

The COMPUTER IN 2/COMPUTER OUT terminal can be used as computer input or monitor output.Press ▲ ▼ to select input or output.

PC 2 ......Computer 2 input Monitor out......Monitor out

#### **Terminal**



### Sound

This item is used to adjust the volume.

Sound...Press ▲ button to increase the volume, press ▼ button to decresce the volume.

Mute....Press ▲ ▼ button to swicth mute

function.(On/Off)

### Sound



## **Expand**

The projector has Expand menu that allows you to set the other various expand functions described as follows.

- 1 Press MENU button on remote control to display screen menu. Press ▲▼ button to select Expand ,then press OK button.
- 2 Press ▲▼ button to select the item you want to set, press OK button.
- 3 Press ▲▼ button to adjust the item, then press OK button.

## Language

Press ▲▼◀► button to select the language for screen manual.

This projector provides 23 lanuages.

#### Expand menu



## **Auto setup**

Press AUTOSET button on the remote control to execute Input search, Auto PC adj. and Auto keystone functions.

#### Input search

Allows you to automatically detect input signals. It stops when a signal is found. Press ▲▼ button to select an option below:

Off......Disabled.

On......Enabled. This function is used to detect input signals automatically and stops when finding a signal.

#### Auto PC adi

On......Press the AUTOSET button on the remote control to enable Auto PC adj. function automatically.

Off......Cancel Auto PC adj. function.

#### Auto keystone

Off......Disabled.

Auto.....To correct keystone distortion depending on the slope of the projector all the time.

Manual ..To enable the function by pressing AUTOSET on the top control or remote control.

#### Auto setup



#### ✓ Note:

- Only the last selected input source can be detected.
- If the INPUT button on the top control or on the remote control is pressed during Input search is in progress, Input search will stop and go back to the previous input signal.
- Fine sync., Total dots, Horizontal and Vertical position of some computers cannot be fully adjusted with the Auto PC Adj. function.

  When the image is not provided properly with this operation, manual adjustments are required.

### **Expand**

#### Logo

This function allows you to customize the screen logo with Logo select, Capture, Logo PIN code lock and Logo PIN code change functions.

#### Logo Select

This function decides on the starting-up display from among following options.

Default .... Show the factory-set logo.

User......Show the image captured by user. Off ...... Show the countdown display only.

#### Capture

You can capture a projected image as start logo or interval of presentation.

Select Capture and press OK button.

Confirmation dialog box appears, select "Yes" to start capturing.

You can set Logo Select as "User" after capturing, then captured image will appear on sreen next time you start the projector.

### Logo



### Logo PIN code Lock

This function prevents an unauthorized person from changing the screen logo.

Off ..... The screen logo can be changed freely from the Logo menu.

On ..... The screen logo cannot be changed without a Logo PIN code.

If you want to change the Logo PIN code lock setting, press OK button and the Logo PIN code dialog box appears. Enter a Logo PIN code by following the steps below.

#### PIN code reset

Press ▲▼ button to select a number, and then press OK button to enter this number, automatically move the cursor to next box.If you fixed an incorrect number, press MENU button to reset it again.

Repeat this step to complete entering a three-digit number.

After entering the three-digit number, automatically move the cursor to "OK", and press OK button, then you can start to operate the projector.

If you entered an incorrect PIN code, the "PIN code" and the number (\*\*\*) turn red, it will be reset automatically within one second. Enter the correct PIN code all over again.

#### Logo PIN code change

Logo PIN code can be changed to your desired three-digit number. Press OK button to select Logo PIN code change. Logo Pin code dialog box appears, press ▲ ▼ button to enter the correct code. The New Logo PIN code input dialog box appears. Set a new Logo PIN code, confirmation box appears, select Yes to set the new Logo Pin code.

Be sure to note the new Logo PIN code and keep it on hand. If you lost the number, you could no longer change the Logo PIN code setting.

#### **CAUTION:**

WHEN YOU HAVE CHANGED THE LOGO PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE LOGO PIN CODE NO. MEMO ON PAGE 59, AND KEEP IT SECURELY. SHOULD THE LOGO PIN CODE BE LOST OR FORGOTTEN, THE LOGO PIN CODE SETTING CAN NO LONGER BE CHANGED.

## Security

This function allows you to use the PIN code lock and PIN code change functions to set the security for the projector operation.

#### PIN code lock

This function prevents the projector from being operated by unauthorized persons and provides the following setting options for security.

Off ..... Unlocked.

On ....... Enter the PIN code every time turning on the projector. If you want to change PIN code lock setting or PIN code, you must enter the PIN code. The orignal PIN code is "111".

If tou want to change the PIN code lock setting, press OK button, then PIN code dialog box appears.

#### Enter PIN code

Press ▲▼ button to select a number, and then press OK button to enter this number, automatically move the cursor to next box.If you fixed an incorrect number, press MENU button to reset it again.

Repeat this step to complete entering a three-digit number.

After entering the three-digit number, move the cursor to "OK", and press OK button, then you can start to operate the projector.

If you entered an incorrect PIN code, the "PIN code" and the number (\*\*\*) turn red, it will be reset automatically within one second. Enter the correct PIN code all over again.

Change Logo PIN code lock setting
Press ▲▼ button to select On or Off, then
press OK button.

#### PIN code change

The PIN code can be changed to your desired three-digit number. Press ▲▼ button to select PIN code change. Pin code dialog box appears, Press ▲▼ button to enter the correct code. The New PIN code input dialog box appears. Set a new PIN code.

#### Security



#### **CAUTION:**

WHEN YOU HAVE CHANGED THE LOGO PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE LOGO PIN CODE NO. MEMO ON PAGE 59, AND KEEP IT SECURELY. SHOULD THE LOGO PIN CODE BE LOST OR FORGOTTEN, THE LOGO PIN CODE SETTING CAN NO LONGER BE CHANGED.

### **Expand**

## **Power management**

For reducing power consumption as well as maintaining the lamp life, the Power management function turns off the projection lamp when the projector is not operated for a certain period. Select one of the following options:

Shut down ........ When the lamp has been fully cooled down, the power will be turned off.

Off ...... Power management function is off.

Ready countdown..Set the time that ready status transfers to standby status automatically.(0-30min.0 Min: not transfer automatically)

In ready status, press POWER button to swicth to standby status, and press any other button to turn on the projector.

Power management

No signal **01:20** 

Time left before Lamp is off.

√ Note:

Factory default: "Timer: 5 min", "Ready countdown: 0 min".

### Power management



### Filter counter

This function is used to set a frequency for filter cleaning.

When the projector reached a specified time between cleanings, a Filter warning icon appears on the screen, notifying the cleaning is necessary. After cleaning the filter, be sure to select RESET and set the timer. The Filter warning icon will not turn off until the filter counter is reset.

Filter counter......The time that filter used. Timer...... Frequency for filter cleaning. Filter counter reset..Reset the filter counter.

#### Filter counter



#### **Test Pattern**

This function is used to set the internal test signal:Gray scale 1,Gray scale 2,:Gray scale 3,:Gray scale 4, Color bar, Red, Green, Bluw, Cross hatch,White,Black and Gray.

#### Test Pattern



#### **Network**

Function: PC controls projector via LAN.

Preparation:

- 1. Equipments: PC, projector, cables
- 2. Connection procedures:
  - Connect the projector to routers or switches of the LAN by direct or cross cable. If it fails to connect PC and projector by parallel cable, please switch to cross cable as suggested.
- 3. After the computer is booted and the projector is plugged in, indicator lights of LAN interface on will flash continuously.

### Operation procedures:

- 1 Turn on the projector.
- 2 Obtain network address. DHCP set is displayed as On and obtain network address automatically.( If familiar with network, you can set DHCP as Off and obtain network address manually.)
- 3 Enter network settings menu.
  - (1) Press MENU button on remote control to display screen menu. Press ▲▼ button to select Expand, then press OK button.
  - (2) Press ▲▼ button to select Network, and then press OK button to enter the newtork menu.



## **Expand**

(3) When DHCP is set On, IP address, Subnet, Gateway and DNS will be abtained automatically, press OK at "Set" to confrim the parameters.

When DHCP is set Off, press OK button to enter IP address, then press button to enter Subnet, Gateway and DNS respectively, press OK at "Set" to confirm the parameters.



## **Factory default**

This function returns all setting values except for the User logo, PIN code lock, Logo PIN code lock, Lamp counter and Filter counter to the factory default settings.

## Infomation

The information menu is used to detect signal of projected image and running state.

#### Menu operation

Press MENU button on remote control to display the screen menu. Press ▲▼ to select Info., then press OK button, the information menu will appear as the right picture.

The information below will display in information menu.

#### Input

The selected input source is displayed.

#### H-sync freq.

The horizontal frequency of the input signal is displayed in KHz or - - - -KHz when no signal.

#### V-sync freq.

The vertical frequency of the input signal is displayed in Hz or - - - - Hz when no signal. Numbers of Hz doubles when during Interlace.

### Lamp status

Display the lamp mode you select.

#### Lamp counter

Display the time that lamp used.

#### Power management

Display the power management setting.

#### Image mode

Display the selected image mode.

info menu



## Maintenance and cleaning

#### **POWER** indicator

The POWER indicator shows the state of the function which protects the projector. Check the state of the POWER indicator to take proper maintenance.

# The projector is shut down and the POWER indicatoris fashing orange.

When the temperature inside the projector exceeds the normal temperature, the projector is automatically shut down to protect internal components. The POWER indicator is blinking while the projector is being cooled down. When the projector has cooled down enough (to its normal operating temperature), it can be turned on again by pressing the POWER button.

#### √ Note:

The POWER indicator continues to blink even after the temperature inside the projector returns to normal. When the projector is turned on again, the POWER indicator stops blinking.

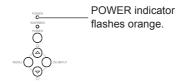
#### Check the items below:

- Did you provide appropriate space for the projector to be ventilated?
   Check the installing condition to see if ventilation slots are not blocked.
- Has the projector been installed near the duct or vent of an airconditioning?
   Move the installation of the projector away from the duct or vent.
- Are the air filters clean? Clean the air filters periodically.

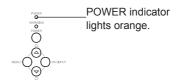
# The projector is shut down and the POWER indicator lights orange.

When the projector detects an abnormal condition, it is automatically shut down to protect the internal components and the POWER indicator lights orange. In this case, unplug the AC power cord and plug it, and then turn on the projector once again to verify operation. If the projector cannot be turned on and the POWER indicator lights red, unplug the AC power cord and contact the service station for servicing and maintenance.

#### POWFR indicator



#### POWER indicator





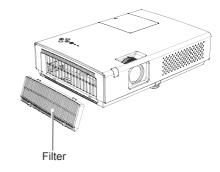
#### Caution

Do not leave the projector with the AC power cord connected under an abnormal condition. It may result in fire or electric shock.

## Cleaning the filter

The air filter prevents dust from accumulating on the surface of the optical elements inside the projector. Should the air filter become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in a buildup of internal heat and adversely affects the life of the projector. If the Filter warning icon appears on the screen, the air filter should be cleaned immediately. Clean the air filter following the steps below.

- 1 Turn off the projector, and unplug the AC power cord from the AC outlet.
- 2 Remove the air filter.
- 3 Gently clean the filter with a brush.
- 4 Reinstall the filter into the projector properly.





#### Caution

Do not operate the projector with the air filter removed. Dust may accumulate on the optical elements, degrading picture quality.

Do not put any small objects into the air intake vents. Otherwise, it may result in malfunction of the projector.

#### Recommendation

We recommend avoiding dusty/smoky environments when you operate the projector. Usage in these environments may cause poor image quality.

When you use the projector under dusty or smoky conditions, dust may accumulate on the lens, LCD panels, or optical elements inside the projector. When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

### Filter counter reset

Be sure to reset the filter counter after cleaning or replacing the filter.

- Press Menu on the remote control to display the screen menu. Press ▲▼ to select Expand, then press OK button.
- Press ▲▼ to select Filter, and then press OK button.
  - Press ▲▼ to select Filter counter reset and press OK button, "Filter counter Reset?" appears on sreen, select "Yes" to continue.
- 3. When another dialog box pops up, select "Yes" to reset the filter

## Maintenance and cleaning

## Clean the project lens

Unplug the AC power cord before cleaning.

Gently wipe the projection lens with a cleaning cloth that contains non-abrasive camera lens cleaner, or use a lens cleaning paper or commercially available air blower to clean the lens.

Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of lens.



### Clean the cabinet

Unplug the AC power cord before cleaning.

Gently wipe the projector surface with a soft dry cleaning cloth. When the cabinet is heavily soiled, use a small amount of mild detergent and finish with a soft dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the cabinet.

When the projector is not in use, put the projector in a pouch to protect it from dust and scratches.



## Replace the lamp

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen, please replace the lamp immediately.

Lamp replacement icon

Lamp replace





As temperature inside the projector is high, you should cool the projector for at least 45 minutes before you open the lamp cover.



For the sake of safety, only use the lamp of the same model. Never drop the lamp onto the ground nor touch the glass bulb! The glass can shafter and burt

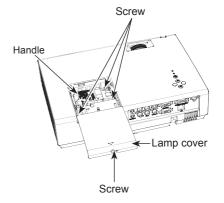


#### Note

When the lamp isn't illuminated, it may indicate that the lamp has been damaged. When you replace the lamp in a projector installed on the ceiling, you should stand beside the lamp cover but not under it; for the broken glass may fall down to hurt you. To do that, remove the lamp cover gently to avoid being hurt by the dropped glass. If glass drops into your eyes or mouth, you should see the doctor immediately.

### To replace the lamp, follow the steps below:

- Power off the projector and unplug the power cord. Then let the project cool for at least 45 minutes
- 2. Loosen the screws on the lamp cover to remove the cover.
- 3. Make sure the lamp is well protected and loosen three screws. Hold the handle to take out the lamp.
- 4. Install a new lamp with the same model and tighten the three screws. Make sure the installation is correct. Put lamp cover in place and then tighten the screw.
- 5. Plug the AC power cord and power on the projector.



### Maintenance and cleaning

#### ORDER REPLACEMENT LAMP

Replacement lamp can be ordered through your dealer. When ordering a projection lamp, give the following information to the dealer.

Replacement Lamp Type No.:SLP-LA10228-0004



#### LAMP HANDLING PRECAUTIONS

This projector uses a high-pressure lamp which must be handled carefully and properly. Improper handling may result in accidents, injury, or create a fire hazard.

- Lamp life may differ from lamp to lamp and according to the environment of use. There is no guarantee of the same life for each lamp. Some lamps may fail or terminate their life in a shorter period of time than other similar lamps.
- If the projector indicates that the lamp should be replaced, i.e., if the WARNING indicator lights up, replace the lamp with a new one IMMEDIATELY after the projector has cooled down. (Follow carefully the instructions in the Lamp Replacement section of this manual.) Continuous use of the lamp with the WARNING indicator lighted may increase the risk of lamp explosion.
- A Lamp may explode as a result of vibration, shock or degradation as a result of hours of
  use as its lifetime draws to an end. Risk of explosion may differ according to the
  environment or conditions in which the projector and lamp are being used.

# IF A LAMP EXPLODES, THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE TAKEN .

If a lamp explodes, disconnect the projector's AC plug from the AC outlet immediately. Contact an authorized service station for a checkup of the unit and replacement of the lamp. Additionally, check carefully to ensure that there are no broken shards or pieces of glass around the projector or coming out from the cooling air circulation holes. Any broken shards found should be cleaned up carefully. No one should check the inside of the projector except those who are authorized trained technicians and who are familiar with projector service. Inappropriate attempts to service the unit by anyone, especially those who are not appropriately trained to do so, may result in an accident or injury caused by pieces of broken glass.

## **Appendix**

## **Troubleshooting**

Before calling your dealer or service center for assistance, check the items below once again.

- Make sure you have properly connected the projector to peripheral equipment.
- Make sure all equipment is connected to the AC outlet and the power is turned on.
- If the projector does not project an image when it is connected to a PC, restart the PC.

Problems	- Solutions
No power	- Plug the power cord of the projector into the AC power outlet.
	<ul> <li>Check whether the POWER indicator lights red.</li> </ul>
	<ul> <li>Only when the POWER indicator lights red can you power on the</li> </ul>
	projector again.
	- Check the WARNING indicator. If it lights red, the projector can not be
	powered on.
	- Check the projection lamp.
	- Unlock the "Key lock" function.
No initial displaying	- Make sure that Logo function is not set to "Off".
Initial displaying is inconsistent with factory defaults	- Make sure that Logo function is not set to "User" or "Off".
Input signals are automatically	- Properly ajust the Input search function.
switched (can't be switched)	
Ambiguous images	- Adjust the focus.
	- Set a more proper projection distance.
	<ul> <li>Check whether the lens needs to be cleaned.</li> </ul>
	<ul> <li>When moved from a environment with low temperature to</li> </ul>
	the one with higher temperature, water will be condensed
	on the lens. If so, you have to wait till the condensed water
	disappears.
Image turns over leftward/	- Check the function of "Ceiling/rear".
rightward	- Check the function of "Ceiling".
Image turns over upward/	
downward	
Image not bright enough	- Check whether the contrast or brightness is adjusted correctly.
	<ul> <li>Check whether the Image mode is properly selected.</li> </ul>
	- Check the function of lamp brightness adjusting.
	- Check the WARNING indicator. If the indicator lights red, it means
	the service life of the lamp is over. You should replace the lamp with
	a new one of the same model immediately.
No image	- Check the connection between Computer or video equipment.
	- Check with the signal from Computer is correct. If connected to
	certain laptops, the settings of their video adapters need to be
	changed. You can refer to the operating instructions of the Computer
	for such modification.
	- Images can show up only about 20 seconds after the projector
	is powered on.
	<ul> <li>Check the input signal, color system, video system or Computer system mode.</li> </ul>
	- Make sure that the temperature doesn't exceed the permitted
	operating temperature (41°F - 95°F[5°C - 35°C]) 。
	- If BLANK function is enabled, no image will appear on
	the screen. You can then press the BLANK button or other button on
	the screen. Tou can then press the BLANK button of other button on

## **Appendix**

No Sound	- Check the audio cable connection from audio input source.
	- Adjust the audio source.
	- Press the VOLUME + button.
	- Press the Mute button.
	- When the AUDIO OUT is plugged in, the projector's built-in
	speaker is not available.
	- Is the image projected? The sound can only be heard when the
	image is projected.
The color is abnormal	Check the input signal, color system, video system or computer system mode.
	- Make sure that Blackboard is not selected in Image Mode menu.
	- Check the Input signal. Auto PC adj. function can not work when
work.	480p, 576p, 720p, 480i, 576i or 1080i is selected.
9	- Make sure you selected "Store" after adjusting settings.
after turing off the projector.	
Power management function does	- Power management function can not work while Freeze or Blank
not work.	function is running.
Logo function does not work.	- Check connections and input source.
Auto setup function does not work.	- Make sure no function in the Auto setup menu is set to "Off".
	- Make sure "On" is not chosen in the Ceiling function.
The image is distorted or disappears.	- Check and adjust "PC adjust" menu or " Screen size" menu.
PIN code dialog box appears at	- PIN code lock is being set.
start-up	
The remote control does not work.	- Check the batteries.
	- Make sure no obstruction is between the projector and the
	remote control.
	- Make sure you are not too far from the projector when using the
	remote control. Maximum operating range is 5 m.
	- Make sure the code of the remote control is conformed to that of
	the projector.
	<ul> <li>Unlock the Key lock function in the Setup menu for the remote control.</li> </ul>
Indicators light or flash.	- Refer to Indicators and projector condition to check the status of
Ü	the projector.
Exclamatory mark appears on the screen.	- Your operation is invalid. Operate correctly.
Top control cannot be operated.	- Unlock the Key lock in Security -> Key lock.
Unable to unlock the Logo PIN code, Key lock or PIN code lock.	- Contact the dealer or the service center.

### Warning:

Is operated with high voltage. Do not open its casing!

If the problem still exists after you take the aforesaid measures, you should contact the local distributor or the repair center and tell the machine model. The projector will tell you how to handle the issue.

## Indicator and projector state

Check the indicator to know about the state of projector.

Indica	tor		
POWER	WARNING	State of projector	
(Green/Red/Blue)	(Orange/Red)		
	•	In power-off state (AC power cord not connected).	
		In normal working state.	
		In standby state. Press POWER to power on the projector.	
Ŏ	•	Internal temperature too high and can't be turned on. When the projector is cool enough, the temperature is restored to the normal value and the POWER indicator lights red, you can turn on the projector.	
ŏ	•	In suspension state.	
ŏ	•	Ready for standby mode or the lamp is being cooled. Before you turn on the projector, you should wait till the lamp is cool enough and the WARNING indicator flashes.	
	•	Can't be turned on because error is detected. You should unplug the power cord. Then insert it again and power on the projector. If the projector is powered off again, you should cut off the power and contact the local distributor or repair center. In this case, stop the projector. Otherwise, electric shock or fire may occur.	
or		The service life of the lamp is over. You should replace it with new one in time.	
•	•	When the projector is cool enough, the temperature is restored to the normal value , you can turn on the projector. the WARNING indicator stops flashing.	



<sup>\*</sup> When the lamp reaches the end of its life, the WARNING indicator lights red. In this case, replace the lamp with a new one promptly.

## **Appendix**

## Compatible computer specifications

This projector can receive the signals below:

			frequency			Signal			
Signal format	Resolution	horizontal frequency (Khz)	Field Frequceny (Hz)	Dot Frequeeny (Mhz)	RGB	Component	HDMI	Video/S-Vide	
TSC/NTSC443/PAL-M	(720x487)	15.734	59.940	-				0	
PAL/PAL-N/SECAM	(720x576)	15.625	50.000	-				0	
525i (480i)	720x480i	15.734	59.940	13.500		0			
	720(1440)x480i	15.734	59.940	27.000			0		
625i (576i)	720x576i	15.625	50.000	13.500		0			
	720(1440)x576i	15.625	50.000	27.000			0		
525p (480p)	720x483	31.469	59.940	27.000		0	0		
625p (576p)	720x576	31.250	50.000	27.000		0	0		
750 (720)/60p	1280x720	45.000	60.000	74.250		0	0		
		44.955	59.940	74.176					
750 (720)/50p	1280x720	37.500	50.000	74.250		0	0		
1125 (1080)/60i	1920x1080i	33.750	60.000	74.250		0	0		
		33.716	59.940	74.176					
1125 (1080)/50i	1920x1080i	28.125	50.000	74.250		0	0		
1125 (1080)/24p	1920x1080	27.000	24.000	74.250			0		
		26.973	23.976	74.176					
1125 (1080)/25p	1920x1080	28.125	25.000	74.250					
1125 (1080)/30p	1920x1080	33.750	30.000	74.250					
		33.716	29.970	74.176					
1125 (1080)/60p	1920x1080	67.500	60.000	148.500			0		
, , ,		67.433	59.940	148.352					
1125 (1080)/50p	1920x1080	56.250	50.000	148.500			0		
` ' '		31.469	59.940	25.175	0		0		
		35.000	66.667	30.240	0		0		
VGA	640x480	37.861	72.809	31.500	0		0		
		37.500	75.000	31.500	0		0		
		43.269	85.008	36.000	0		0		
		35.156	56.250	36.000	0		0		
		37.879	60.317	40.000	0		0		
		48.077	72.188	50.000	0		0		
		46.875	75.000	49.500	0		0		
		53.674	85.061	56.250	0		0		
MAC16	832x624	49.725	74.550	57.283	0		0		
111110110	OOZAOZ I	48,363	60.004	65.000	0		0		
		56.476	70.069	75.000	0		0		
XGA	1024x768	60.023	75.029	78.750	0	<del>                                     </del>	0		
		68.678	84.997	94.500	0	<del>                                     </del>	0		
MXGA	1152x864	63.995	70.020	94.200	0	<del>                                     </del>	0		
WAGA	1102,0004	47.776	59.870	79.500	0	<del>                                     </del>	0		
1280x768	1280x768	60.290	74.890	102.250	0	<del>                                     </del>	0		
12007/00	12008700	68.630	84.840	117.500	0	<del>                                     </del>	0		
		49.702	59.810	83.500	0	1	0		
1280x800	1280x800	62.795	74.934	106.500	0	1	0		
1200,000	1200,000	71.554	84.880	122.500	0	<del>                                     </del>	0		
MSXGA	1280x960	60.000	60.000	108.000	0		0		
WISAGA	12003900	63.981	60.000	108.000	0				
					_		0		
SXGA	1280x1024	76.968	71.932	133.000	0	<del>                                     </del>	0		
		79.977	75.025	135.001	0		0		
		91.150	85.020	157.500	0		0		
1366x768	1366x768	47.720	59.799	84.750	0		0		
SXGA+	1400x1050	65.317	59.978	121.750	0		0		
UXGA	1600x1200	75.000	60.000	162.000	0		0		
WSXGA+	1680x1050	65.290	59.954	146.250	0		0		
WUXGA	1920x1200	74.038	59.950	154.000	0		0		

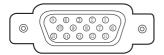
<sup>√</sup> Note

The specification is subject to change without any prior notice.

### **Configurations of terminals**

#### COMPUTER IN 1/SCART, COMPUTER IN 2/MONITIOR OUT

Terminal: Analog RGB (D-sub 15 pin)



1	Red (Input/output)	9	
2	Green (Input/output)	10	Grounding (field synchronizing)
3	Blue (Input/output)	11	Grounding
4		12	DDC data
5	Grounding (line synchronizing)	13	Horizontal synchronizing (compound sync.) input/output
6	Grounding (red)	14	Vertical synchronizing input/output
7	Grounding (green)	15	DDC Clock
8	Grounding (blue)		

#### CONTROL terminal (D-SUB-9 pin)



	,
1	
2	RXD
3	TXD
4	
5	GND
6	
7	
8	
9	

## **LAN** terminal



1	TX +	5	
2	TX -	6	
3		7	RX +
4		8	RX -

### **HDMI terminal (HDMI Type A 19 pin)**



	,		
1	TMDS Data2+	11	TMDS Clock Shield
2	TMDS Data2 Shield	12	TMDS Clock-
3	TMDS Data2-	13	CEC
4	TMDS Data1+	14	Reserved (N.C. on device)
5	TMDS Data1 Shield	15	SCL
6	TMDS Data1-	16	SDA
7	TMDS Data0+	17	DDC/CEC Ground
8	TMDS Data0 Shield	18	+5V Power
9	TMDS Data0-	19	Hot Plug Detect
10	TMDS Clock+		

## Content of hazardous substances and elements

Name of name	Hazardous substances and elements					
Name of parts	Pb	Hg	Cd	Cr6+	PBB	PBDE
Optical parts*1	×	0	0	0	0	0
Electric parts*2	×	0	0	0	0	0
Cabinet, mechanical parts	×	0	0	0	0	0
Lamp unit	×	×	0	0	0	0
Batteries	0	0	0	0	0	0
Others(Remote contro, cable and other parts)	×	0	0	0	0	0

- It means that contents of hazardous substances in all homogeneous materials in this part don't exceed "Required Limitations" specified in SJ/T11363-2006.
- x: It means that contents of hazardous substances in at least one homogeneous material in this part exceed "Required Limitations" specified in SJ/T11363-2006.

#### Note:

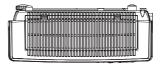
- \*1 : Optical parts includes optical lens, monitor, reflection lens ect.
- \*2 : Electric parts includes PCB, internal wires, fans, power sulpply, sensors etc.

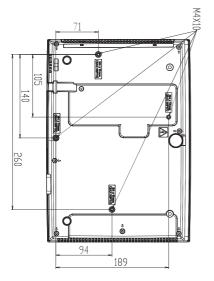
## **Dimensions**

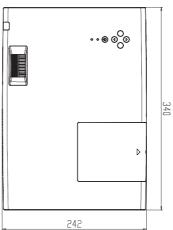
Unit: mm

Screw Holes for Ceiling Mount

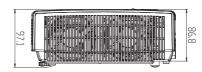
Screw: M4 Depth: 10.0











## PIN code memorandum

Write down the PIN code in the blank below and keep it, please contact the repair center.

	Factory default PIN code 111*
PIN code lock	
	Factory default PIN code 111*
Locking startup-animation PIN code	
	*If this 3-digit number is changed, the factory default number will be ineffective.

#### **RS232 Control Method**

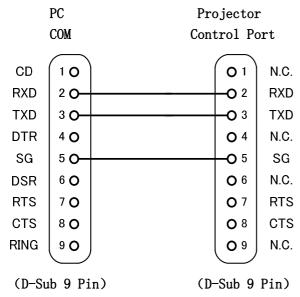
#### 1. Connection

### 1.1 Port Setting

Item	Value
Method	Asynchronous communication
Bits per seconds	19200
Data bits	8
Parity	none
Stop bits	1
Flow control	none

### 1.2 Wiring

Connect the computer and projector with RS232 direct cable.



#### 2. Commands

Case sensitive, each command end by[CR](Carriage). The time out for each command is one second. If you want to cancel the time out setting temporarily. Please send "#!"[CR].( It should be sent within one second).

Command	Item	Command	Item
A00	POWER ON	A07	Component
	POWER OFF	A33	Video
A01	(Power OFF immediately)		
A02	POWER OFF	A34	S-video
A05	Computer 1	A36	HDMI
A06	Computer 2		

## 2.1 POWER ON

Command	"A00"[CR] (Hex: 41 30 30 0d)	
Details	Power on when projector standby	
Return	ок	[ACK] [CR]
	NG	"?" [CR]

## 2.2 POWER OFF (Power OFF immediately)

Command	"A01" [CR] (Hex: 41 30 31 0d)	
Details	Power Off immediately	
Return	ОК	[ACK] [CR]
	NG	"?" [CR]

### 2.3 POWER OFF

Command	"A02" [CR] (Hex: 41 30 32 0d)	
Details	"Power off?" displays while send the command, just like press the "POWER"key.	
Return	ок	[ACK] [CR]
	NG	"?" [CR]

## 2.4 Computer1

Command	"A05" [CR] (Hex: 41 30 35 0d)	
Details	Change the input to "Computer1".	
Return	ок	[ACK] [CR]
	NG	"?" [CR]

## 2.5 Computer 2

Command	"A06" [CR] (Hex:	41 30 36 0d)
II Jetalis	When COMPUER IN the input to "Compute	2/MONOTOR OUT ternimal is used as COMPUTER IN 2,Change er 2".
Return	ок	[ACK] [CR]
	NG	"?" [CR]

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## **Appendix**

## 2.6 Component

Command	"A07" [CR] (Hex: 41 30 37 0d)	
Details	Change the input to "Component".	
Return	ок	[ACK] [CR]
	NG	"?" [CR]

## 2.7 Video

Command	"A33" [CR] (Hex: 41 33 33 0d)	
Details	Change the input to "Video".	
Return	ок	[ACK] [CR]
	NG	"?" [CR]

### 2.8 S-video

Command	"A34" [CR] (Hex: 41 33 34 0d)	
Details	Change the input to "S-video".	
Return	OK	[ACK] [CR]
	NG	"?" [CR]

## 2.9 HDMI

Command	"A36" [CR] (Hex: 41 33 36 0d)	
Details	Change the input to "HDMI".	
Return	ок	[ACK] [CR]
	NG	"?" [CR]

Email: info@vertex.co.th www.vertex.co.th